

8(0)

sov/105-59-5-25/29

AUTHORS:

Basurmanov, K. A., Engineer, Galonen, Yu. M., Candidate of Technical Sciences, Yefremov, I. S., Professor, Doctor of Technical Sciences, Ivanov, I. T., Candidate of Technical

Sciences

TITLE:

V. G. Sosyants

PERIODICAL: Elektrichestvo, 1959, Nr 5, p 92 (USSR)

ABSTRACT:

A short curriculum vitae on the occasion of his 70th birthday. Born on November 27, 1888 in Tiflis. Entered the Moskovskiy tramvay (Moscow Streetcar Service) in 1908, studied at the same time and finished his studies at the Polytechnic Institute in 1916. He worked in the Moscow Streetcar Service until 1930 maere he finally became chief engineer. From 1931-37 he worked in the system of the Narodnyy komissariat kommunal nogo khozyaystva RSFSR (People's Commissariat for Municipal Economy of the RSFSR) and in the Vsesoyuznyy sovet kommunal'nogo khozyaystva pri TsIK SSSR (All-Union Sovet of the Municipal Economy at the TsIK of the USSR). From 1937 he has been conducting the Sector of Municipal Transport at the Akademiya kommunal'nogo khozyaystva im. Pamfilova (Academy of Municipal

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Economy imeni Pamfilov). Besides, he is working as a pedagogue.

V. G. Sosyants

SOV/105-59-5-25/29

He started his activity as a pedagogue in 1929 at the Institut narodnogo khozyaystva im. Plekhanova (Institute of Political Economy imeni Plekhanov) where he organized and gave lectures on municipal electric transportation. Later on he also worked at the Moskovskiy energeticheskiy institut (Moscow Power Engineering Institute) and other institutes. He published a number of scientific papers, text books, and manuals. In 1923 he organized the 1st All-Rusian Streetcar Conference. He was a member of the Presidhm of the Postoyannoye byuro vsesoyuznykh tramvaynykh s"yezdov (Permanent Office of the All-Union Streetcar Congresses), of the Vsesoyuznoye nauchnoye inzhenernotekhnicheskow obshchestvo gorodskogo transporta (All-Union Scientific Technical Society of Municipal Transportation). Since 1954 he has been Deputy President of the Central Executive Committee of the Nauchno-tekhnicheskoye obshchestvo sanitarnoy tekhniki i gorodskogo khozyayatva (Scientific-technical Society of Sanitary Engineering and Municipal Economy). At the same time, he is Deputy President of the Section of Transportation of the Moskovskoye gorodskoye otdeleniye Vsesoyuznogo obshchestva po rasprostraneniyu politicheskikh i nauchnykh znaniy (Moscow Municipal Department of the All-Union Society for the Propagation of Political and Scientific Education), as well as a member of the Commission for the Reorganization of Municipal Trans-

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V. G. Sosyants

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portation at the Mosgorispolkom, of the Tekhnicheskiy sovet Ministerstva kommunal'nogo khozyaystva RSFSR (Technical Council of the Ministry of Municipal Economy of the RSFSR), of the Uchenyy sovet Akademii kommunal'nogo khozyaystva (Scientific Council of the Academy of Municipal Economy) and of the Tekhnicheskiy sovet Mosgorispolkom (Technical Council of the Mosgorispolkom). He bears the Badge of Honor and various medals. There is 1 figure.

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8(6), 12(4)

SOV/105-59-5-27/29

AUTHORS:

Galonen, Yu. M., Candidate of Technical Sciences,

Molodykh, I. A., Engineer

TITLE:

I. S. Yefremov. Mechanical Equipment of Trolley Buses. (I. S. Yefremov. Mekhanicheskoye oborudovaniye trolleybusov). 2nd Edition, Revised and Completed. 351 Pages, Price 9 Rubles 10 Kopecks. Publishing House of the Ministry of Municipal Economy of the RSFSR, 1956 (Izd. 2-e, ispravlennoye is dopolnennoye. 351 str. ts. 9 rub. 10 kop. Izd-vo Ministerstva kommunal nogo khozyaystva RSFSR, 1956). I. S. Yefremov. Electrical Equipment of Trolley Buses (I. S. Yefremov. Electrical Equipment of Trolley Buses (I. S. Yefremov. Elektricheskoye oborudovaniye trolleybusov). 2nd Edition, Revised and Completed. 396 Pages, Price 10 Rubles 60 Kopecks. Publishing House of the Ministry of Municipal Economy of the RSFSR, 1958 (Izd. 2-e, ispravlennoye i dopolnennoye. 396 str., ts. 10 rub. 60 kop. Izd-vo Ministerstva kommunal nogo khozyaystva RSFSR, 1958)

PERIODICAL:

Elektrichestvo, 1959, Nr 5, pp 93-94 (USSR)

ABSTRACT:

This is a book review. Both these books are textbooks of electromechanics and can be used as reference works by engineers and technicians of the trolley-bus transport companies. Both the books are clearly and fluently written and bring many data. A short survey of the contents of individual chapters is given.

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SOV/105-59-5-27/29 and Completed. 351 Pages, Price 9 Rubles 10 Kopecks. Publishing House of the Ministry of Municipal Economy of the RSFSR, 1956. I. S. Yefremov. Electrical Equipment of Trolley Buses. 2nd Edition, Revised and Completed. 396 Pages, Price 10 Rubles 60 Kopecks. Publishing House of the Ministry of Municipal Economy of the RSFSR, 1958

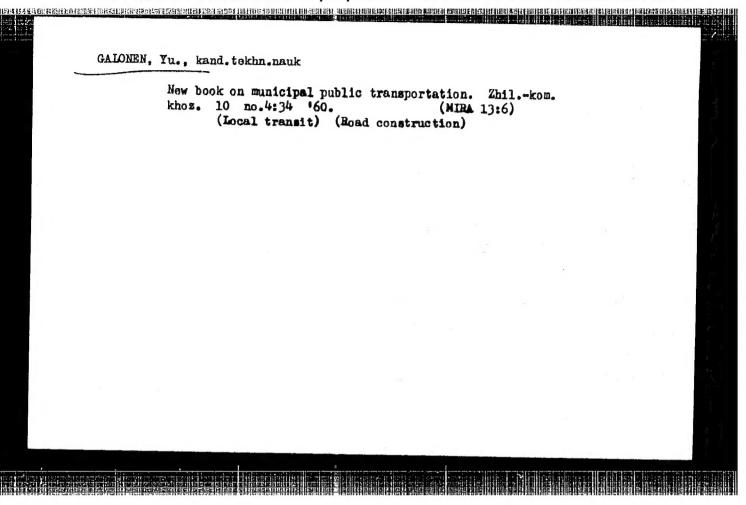
and some shortcomings are pointed out. It is recommended for the next edition to deal with the problem of using singlephase current and semiconductor rectifiers in trolley buses, and to bring the constructional data and descriptions of the electrical equipment in the new types of trolley buses.

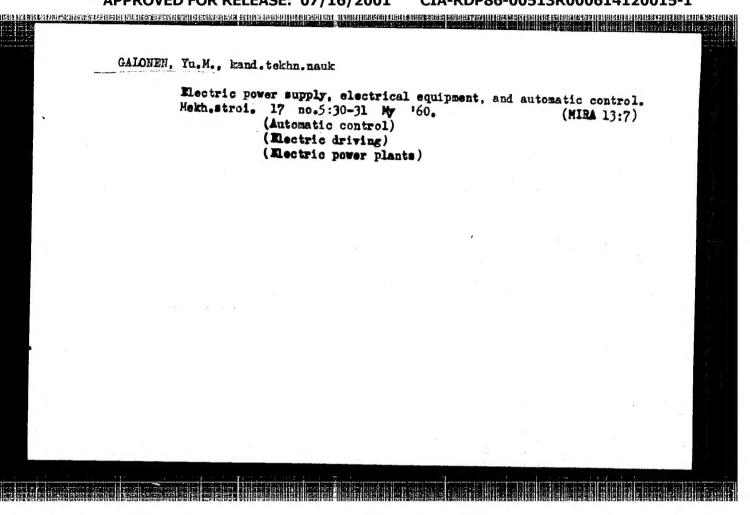
Card 2/2

CIA-RDP86-00513R000614120015-1 "APPROVED FOR RELEASE: 07/16/2001

GAIONEN, Yu., kand. tekhn. nauk "Electric equipment of refrigerating compressor plants" by D.S. Chukaev, V.S. Shcherbakov. Reviewed by IU. Galonen. Khol. tekh. 37 no.4 :67-68 J1-Ag 160. (MIRA 13:11) (Refrigeration and refrigerating machinery -- Electric equipment) (Shcher bakov, V.S.) (Chukaev, D.S.)

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CIA-RDP86-00513R000614120015-1" APPROVED FOR RELEASE: 07/16/2001

GALONEN, Yn., kand.tekhn.nauk

"Design, maintenance, and repair of street railway rolling stock"
by M.S.Chertok. Reviewed by IU.Galonen. Zhil.-kom khoz. 10 no.11:
33 '60.

(Streetcars)
(Chertok, M.S.)

GALONEN, Yuriy Mikhaylovich, kand.tekhn.nauk; ISLANKINA, T.F., red.;
ATROSHCHENKO, L.Ye., tekhn.red.

[Urban passenger transportation] Gorodskoi passazhirskii transport. Moskva, Izd-vo "Znanie," 1961. 47 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser.4, Tekhnika, no.11)

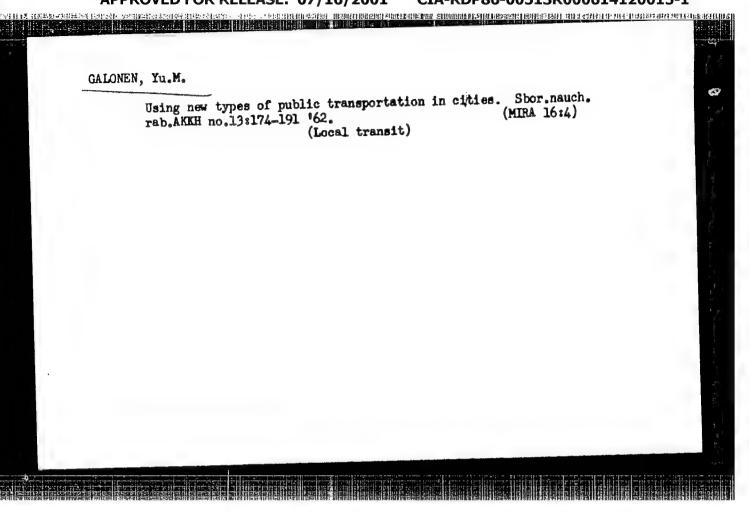
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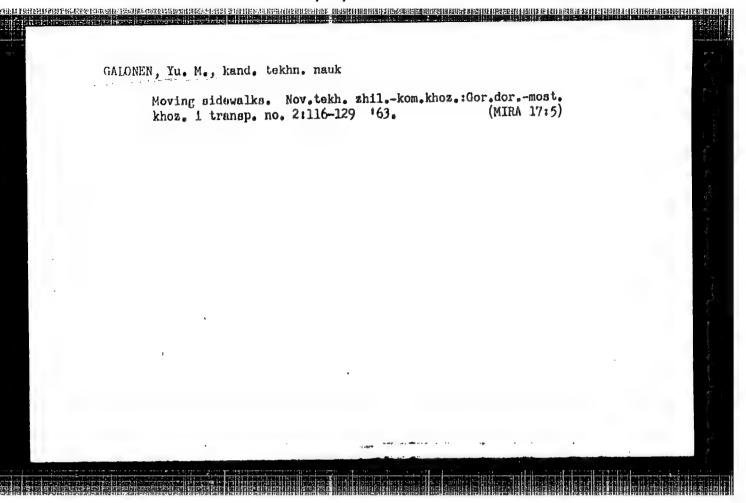
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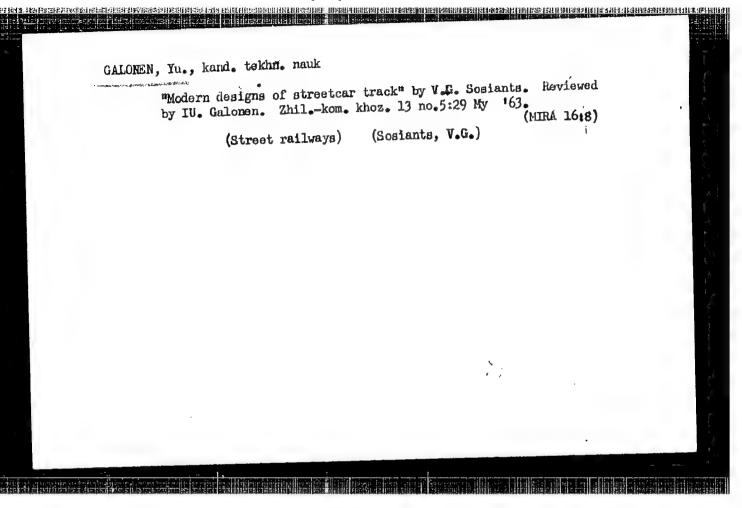
GALONER, Yu.M., kand.tekhn.nauk

Conference on streetcar and trolley bus transportation systems.
Elektrichestvo no.4:99-90 Ap '61. (MIRA 14:8)

1. Akademiya kommunal'nogo khozyaystva. (Streetcars—Congresses)
(Trolley buses—Congresses)







GALONEN, Yuriy Mikhaylovich, kand. tekhn. nauk; IVANOV, S.M., red.

[Trains over the city; monorail railways] Poezda nad goro-

[Trains over the city; monorail railways] Poezda nad gorodom; monorel'sovye dorogi. Moskva, Izd-vo "Znanie," 1965.
31 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.8) (MIRA 18:4)

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Galence, P.1

USSR/Analytical Chemistry - Analysis of Inorganic Substances, G-2

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1264

Author: Sventitskiy, N. S., Sukhenko, K. A., Galenev. P. P., Fal'kova, O. B.,

Alpatov, M. S., and Taganov, K. I.

Institution: None

Title: Spectral Determination of Nitrogen, Hydrogen, and Oxygen in Titanium

and Its Alloys

Original

Periodical: Zavod. laboratoriya, 1956, Vol 22, No 6, 668-673

Abstract: The determination of N, O, and H in Ti alloys and of E in Ti powder

is described. The determinations were made with a type ISP-51 spectrograph (with a camera of f = 270 mm for N and 0 and a type UF 85 camera of f = 1,300 mm for H); type III spectroscopic plates were used for N and O and type 250 Government Standard panchormatic film was used for H. Several methods of excitation were tested, including low-voltage condenser sparks and single-pulse high- and low-voltage

condenser discharges. The first method gave the best results with N,

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USSR/Analytical Chemistry - Analysis of Inorganic Substances, 6-2

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1264

Abstract: while the last method was found most effective for 0 and H. N and 0 were determined in an atmosphere of helium (700 and 500 mm Hg, respectively), while H was determined in air. For standards cast samples of Ti were used the N content of which had been determined chemically, and the 0 and H content -- by hot extraction. The following slit widths were used: 0.015 mm for N, 0.02 mm for 0, and 0.07 mm for H. An exposure of one second was used for N with the following pairs: NII 3994, 995 A and Til 3889, 954 A and Til 3998, 640 A. In analysis for 0 the relative intensity of the lines OII 4705, 32 and OII 4596, 13 A and of the background was determined. In the case of H the darkening of the line H 6563 A was measured. The error in the determination of N is 125%; of 0, 120-40% (as the energy of the discharge is increased, the intensity of the O-lines at first increases and then begins to drop off); and for H, 18.8% for heat treated samples and ±15.5% for samples which have not been heat treated. For the determination of H in powdered Ti briquetted electrodes are used. Standard briquettes are prepared from titanium hydride and Cu powder. The error is ±10-13%.

Card 2/2

SVENTITSKIY, N.S.; SUKHENKO, K.A.; FAL'KOVA, O.B.; GALONOV, P.P.;
TAGAHOV, K.I.; ALPATOV, M.S.

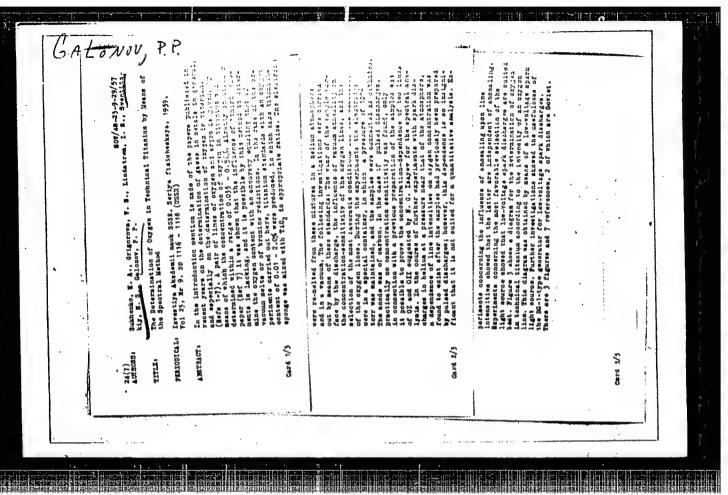
Spectrum analysis of titanium, molybdenum, and their alloys for nitrogen, hydrogen, and oxygen. Fiz.sbor. no.4:225-231

[58]

1. Vsesoyusnyy ordena Lenina nauchno-issledovatel'skiy institut aviatsionnykh materialov.

(Gases in metals)

(Spectrum analysis)



ALFATOV, M.S.; GALONOV, P.P.; SUKHENKO, K.A.; FAL'KOVA, O.B.; Prinimali uchastiye: METELINA, L.D.; MOISEYEVA, K.A.; TISHIN, I.G.

Determination of the oxygen and nitrogen content in solid specimens of molybdenum and chronium by the spectrum analysis method. Trudy Kom, anal. khim. 12:288-297 '60. (MIRA 13:8) (Chromium—Analysis) (Spectrum analysis)

(Spectrum analysis)

SOY/48-23-9-32/57 24(7) Sukhenko, K. A., Galonov, P. P., Barasheva, T. V. AUTHORS: TITLE: The Determination of Nitrogen in Steels of Various Compositions PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, Vol 23, Nr 9, pp 1123 - 1126 (USSR) In the present paper the development of a method of deter-ABSTRACT: mining nitrogen in steel is dealt with. The experiments were carried out on standards, the production of which is outlined in the following stages: Selection of the material for the standards, production of the alloys, exact chemical determination of the composition, and investigation of their homogeneity. To stainless steel nitrogen was added in form of nitrogenenriched ferrochrome. The nitrogen content amounted to 0.02 - 0.2%. The chemical investigations were carried out at the Tsentral nyy nauchno-issledovatel skiy institut chernov metallurgii (Central Scientific Research Institute for Ferrous Metallurgy) and at the Institut metallurgii AN SSSR (Institute of Metallurgy of the AS USSR). Table 1 shows the calculated and the chemically determined nitrogen contents of the standards, and table 2 shows the general results of chemical analyses of Card 1/2 the standards. Homogeneity was determined by means of spectral-

The Determination of Nitrogen in Steels of Various SOV/48-23-9-32/5? Compositions

analytical methods. In the discharge chamber helium was used as a neutral medium. The diagram of figure 1 shows the calibration line for nitrogen determination in steel. A lowvoltage spark generator and a pulsed-discharge generator were used as light sources. The scheme of a combined generator is shown by figure 2. In this circuit miniature electrolytic condensers and paper condensers are used, and semiconductors serve as rectifiers. In the spectral analysis of nitrogen in steels the influence of "third" elements was found. All experiments carried out on samples with about 1% Al yielded too high values. An increase in chromium with a simultaneous decrease in nickel causes a steeper slope of the calibration curve. There are 2 figures and 4 tables.

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GALONOV, P.P., SUKHENKO, K.A.; SVENFITSKIY, N.S.; ISAYEV, N.G.; TISHIN, I.G.;

BARASHEVA, T.V.

Determination of nitrogen in steel and of hydrogen in commercial titanium and its alloys. Trudy kom.anal.khim. 10:190-195 '60.

(Titanium—Analysis)

(Androgen—Analysis)

(Bitrogen—Analysis)

(Steel—Analysis)

PHASE I BOOK EXPLOITATION SOV/6181

Ural'akoye soveshchaniye po spektroskopii. 3d, Sverdiovsk, 1960.
Materialy (Materials of the Third Ural Conference on Spectroscopy) Sverdiovsk, Metallurgizdat, 1962. 197 p. Errata slip inserted. 3000 copies printed.

Sponsoring Agencies: Institut fiziki metallov Akademii nauk SSR.
Komissiya po spektroskopii; and Ural'skiy dom tekhniki VSNTO.

Eds. (Title page): 0. P. Skornyakov, A. B. Shayevich, and S. G.
Bogomolov; Ed.: Gennadiy Pavlovich Skornyakov; Ed. of Publishing House: M. L. Kryzhova; Tech. Ed.: N. T. Mal'kova.

PURPOSE: The book, a collection of articles, is intended for staff members of spectral analysis laboratories in industry and scientific research organizations, as well as for students of related disciplines and for technologists utilizing analytical results.

COVERAGE: The collection presents theoretical and practical problems of the application of atomic and molecular spectral analylems of the application of atomic and molecular spectral analylems of the application of atomic and molecular spectral analylems in ferrous and nonferrous metallurgy, geology, chemical indusin ferrous and nonferrous metallurgy, geology, chemical indusin ferrous and nonferrous metallurgy, geology, chemical indusin ferrous for help in preparing the materials for the press.

References follow the individual articles.

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S/701/61/000/000/002/005 B124/B138

18.8400 (2408)

AUTHORS: Sukhenko

Sukhenko, K. A., Filatov, F. I., Galonov, P. P., Moiseyeva,

K. A., Metelina, L. D.

TITLE:

The analysis of aluminum alloys with a multichannel quanto-

meter

SOURCE

Fotoelektricheskiye metody spektral'nogo analiza; sbornik

statey. Moscow, Oborongiz, 1961, p. 44 - 65

TEXT: 100 mm long wires 7 mm in diameter, and cast electrodes and disks 50 mm in diameter and 40 - 50 mm thick, made of A/m (AMg) and duraluminum were analyzed with a 85-channel quantometer supplied by the firm ARL in the USA. The spectroscopic assembly consists of four constituent parts: (1) spectrometer with diffraction grating, slits, photomultipliers, and stand; (2) amplifying and recording device and timing relay; (3) adjustable high-accuracy light source, and (4) frequency and voltage stabilizer. A 1.5 m concave-ruled diffraction grating (960 lines/mm) is attached to the exit slot. The spectral range is 1500 and 7700 Å. Optical and electric diagrams are shown in Fig. 6. Hemispherical or truncated-cone graphite and Card 1/10

The analysis of aluminum ...

S/701/61/000/000/002/005 B124/B138

carbon electrodes are recommended. An air-conditioner supplied by Sulzer (Switzerland) is recommended for maintaining a constant temperature of 21 ± 0 5°C and humidity of 45 ± 2.5%. Analytical lines and operating conditions for the analysis of specially prepared standards of steel and Algebrahence on the concentration ranges of each element contained in the alloy (Table 4). The reproducibility of results obtained for AMg and dur aluminum is shown in Tables 5 and 6. Analysis of 6 - 7 elements takes 2 aminutes, with the automatic device. The accuracy (except copper) is 1 ares and 6 tables.

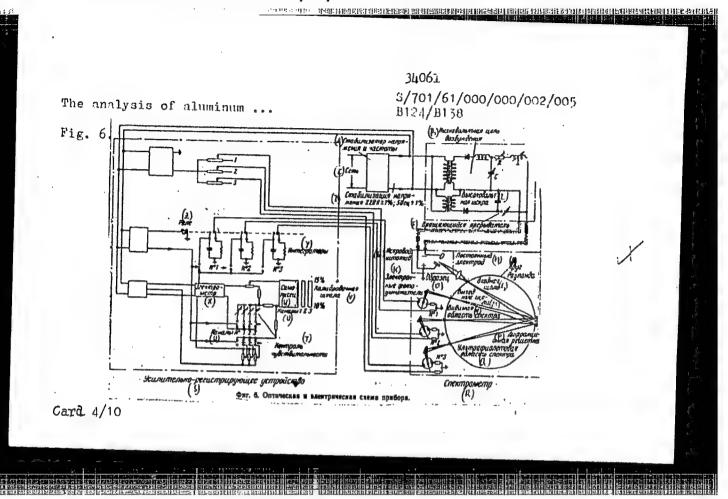
Card 2/10

The analysis of aluminum ...

3/701/61/000/000/002/005 B124/B138

Fig. 6. Optical and electric diagram of the apparatus, aegend: (A) Voltage and frequency stabilizer; (B) Low-voltage exciting circuit; (C) mains; (D) Voltage stabilization 220 v ± 1%; 50 cps ± 1%; (E) High-voltage spark; (F) Rotary chopper; (G) Spirk stand; (H) Stationary electrody; (J) Rowland's circle; (K) Photomultiplier tuber; (L) inlet slit; (M) exit slits; (N) visible region of the spectrum; (O) Sample; (P) diffraction grating; (Q) ultraviolet region of the spectrum; (R) Spectrometer; (S) Amplifying and recording device; (T) Sensitivity control; (U) Channels; (V) Calibration dial; (W) recorder; (X) Electrometer; (Y) Integrators; (Z) Relay.

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The analysis of aluminum ...

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Table 1. Operating program of the ARL quantometer. Legend: (A) Elements; (B) Spectral lines; (C) Panel No. for exit slits; (D) Concentration ranges, in %, for the analysis of different alloys and steels; (E) Alloy steels; (F) low-voltage spark; (G) trace elements in steels; (H) titanium steels; (I) high-voltage spark; (J) nickel alloys; (K) aluminum alloys; (L) magnesium alloys; (M) Number of integrator; (N) Number of photomultiplier; (O) Number of channel; (P) Reference line; (R) Screen; (3) Undispersed light; (T) There are 23 integrators in all, 38 photomultipliers, 85 measuring channels; (U) Notes. 1. A, B, C, D, E, and F indicate the group of the alloys. 2. Screens are necessary to protect the photomultipliers against strong flux of light.

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The analysis of aluminum ...

5/701/61/000/000/002/005 B124/B138

Table 4. Selection of the attenuators. Legend: (A) Number of attenuator; (B) Element; (C) Position of attenuator; (D) AMS; (E) Duralumin; (F) Copper; (G) Beryllium; (H) Magnesium; (J) Iron; (K) Silicon; (L) Manganese; (M) Zinc; (N) Titanium; (P) Aluminum.

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The analysis of aluminum ...

3/701/61/000/000/002/005 B124/B138

Table 5. Reproducibility of analytical results for AMg-type aluminum alloys and duralumin (high-voltage spark used as the source of light). Legend: (A) Analytical lines, A; (B) Mean arithmetical error, in %, of 20 to 40 determinations; (C) AMg, wire; (D) AMg, cast bars; (E) AMg, disks; (F) Duralumin, bars, wire; (G) Duralumin, disks; (H) Concentration vances determined for both alloys; (J) Reference line; (K) Note. The carbon stationary electrode is hemispherical.

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"APPROVED FOR RELEASE: 07/16/2001

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S/701/61/000/000/002/005 B124/B138 The analysis of aluminum ...

Table 5.

АМг, тянутая проволо- ка	лМг, прутки литые	АМг, лиски	Дуралюмин, прутки, тянутая проволока	(6) Дуралюмин, дисин	Пределы определяемых кон- центраций по обоны сплавам
+1.2	+2.5	+2.7	+3.6	+50	0,07-6,9
±2,5	± 3.5	+2.0			0.08-7.5
±0,73	±3,6	±2.0	,		0,10-1,6
±1,2	±2,2	±2,6			0.06-1.9
±2,5	±4,2	±1,0			0.20-1.9
±1,0	-	_	-		0,0010,008
Линия ср	арнення		-		
	±1,2 ±2,5 ±0,73 ±1,2 ±2,5 ±1,0	### #################################	±1,2 ±2,5 ±2,7 ±0,73 ±3,6 ±2,0 ±1,2 ±2,5 ±2,7 ±2,5 ±3,6 ±2,0 ±1,2 ±2,2 ±2,6 ±2,5 ±4,2 ±1,0 ±1,0 — —	±1,2 ±2,5 ±2,5 ±2,0 ±2,0 ±0,73 ±3,6 ±2,0 ±2,0 ±1,2 ±2,2 ±2,0 ±2,0 ±1,2 ±2,2 ±2,0 ±2,0 ±1,2 ±2,2 ±2,6 ±1,5 ±2,5 ±4,2 ±1,0 ±2,0 ±1,0 - - -	танутая проволо- ка прутки диски тянутая проволока Дуралюмин, диски ±1,2 ±2,5 ±2,7 ±3,6 ±5,0 ±2,5 ±3,5 ±2,0 ±2,0 ±1,5 ±0,73 ±3,6 ±2,0 ±0,9 ±1,8 ±1,2 ±2,2 ±2,6 ±1,5 ±1,5 ±2,5 ±4,2 ±1,0 ±2,0 ±2,0 ±1,0 - - - -

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analysis of aluminum ...

S/701/61/000/000/002/005 B124/B138

Reproducibility of the analytical lines of the duralumin-type aluminum alloy (low-voltage spark used as the source of light).

Legend: (A) Analytical lines, A; (B) Mean arithmetic error, in g of 60 determinations; (C) Duralumin, disks; (D) Range of concentrations determined; (E) Reference line.

Аналитические	В Сред чя арифиетическая ошибка в % из 60 определений					
(A) Ä	(с) дуралюмин, диски	(Д) пределы определяемых концентраций				
Cu 3274	±1,6	1,0-6,1				
Mg 2790	±2,65	0,5-2,0				
Pe 2599	±3,3	0,4-2,0				
Mn 2933	±2,8	0,2-1,1				
Al 2568	(Е) Лини	в сравнения				

Card 10/10

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S/701/61/000/000/004/005 B124/B138

18.8400

AUTHORS: Sukhenko, K. A., Filatov, F. I., Moiseyeva, K. A., Galonov, P.

P. Metelina, L. D.

TITLE:

Determination of boron in nickel alloys

SOURCE:

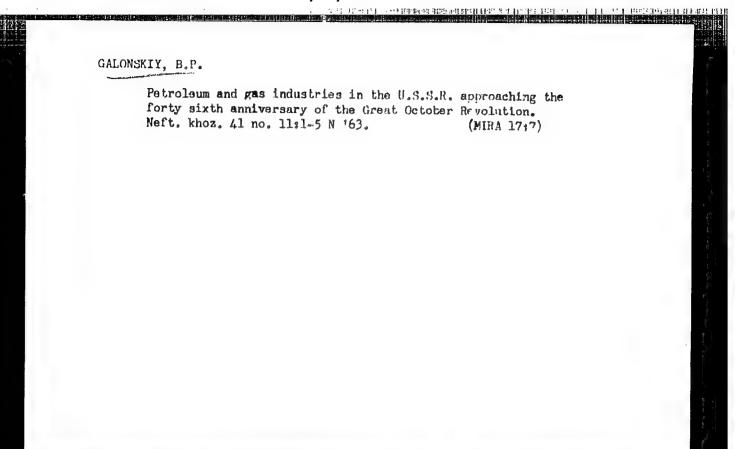
Fotoelektricheskiye metody spektral'nogo analiza; sbornik statey, Moscow, Oborongiz, 1961, p. 82 - 86

TEXT: The medium-dispersion quartz spectrograph MCF-28 (ISP-28) and the diffraction-grating spectrograph MCF-13 (DFS-13) and the ARL quantometer (USA) were used to determine the boron content of three types of nickel alloys. Operating conditions are given in Table 1. Optimum results were obtained with low-voltage spark; the mean arithmetical error for a sample containing 0.02% B was ±6%. T. M. Faytel'son and T. Ye. Sharovatova are mentioned. There are 4 figures and 2 tables.

Table 1. Conditions for the multichannel quantometer determination of boron in a nickel alloy. Legend: (A) Low-voltage spark; (B) Arc with spark gap; (C) ... microfarads; (D) ... microhenry; (E)

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		34063	
Determination		S/701/61/000/000/004/005 B124/B138	
Samp Samp	v; (F)ohms; (G) U; ple "+"; carbon auxilia ple "-"; carbon auxilia	ry electrode, hemispherical; (K) ry electrode, hemispherical; (K)	
`.			
	(А) Низковольтная искра	(В) Дуга с искровым режимом]	Y
	(c) C=10 Μκφ; L=50 Μκεν; U=250 s; U _{py} =1000 s; R=5 ο μ. (E) (E) (A) (A) (C) (C) (A) (C) (A) (C) (A) (A) (C) (A) (C) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A	C=60 MKG; L=360 MKZH; U=200 (c) U _{DT} =300 (c) R=45 (d) 1=4 a.	
(J)	Апалитический промежуток	 (н) Аналитический прочежуток d = 3,0 м м (к) Образец ,— "; подставной элект- род С, заточка по форме полусферы 	
lard 2/2			



AMIYAN, V.A.; GALONSKIY, P.P.; LAVRUSHKO, P.H., MURAV:YEV, V.M.

Progress in the exploitation of oil wells. Neft, khoz, 40 no.12:39-44 D '62. (MIRA 16:7)

(Petroleum production)

GALONSKIY, Pavel Petrovich; PERSHINA, Ye.G., redaktor; POLOSINA, A.S., tekhnicheskiy redaktor.

[The fight against paraffin in oil production; theory and practice] Bor'ta s parafinom pri dobyche nefti; teoriia i praktika. Moskva, Gos.nauchno-tekhn.izd-vo neftianoi i gorno-toplivnoi lit-ry, 1955.
148 p. (MLRA 8:9)

(Paraffina) (Petroleum)

15-57-7-10345 Referativnyy zhurnal, Geologiya, 1957, Nr 7, Translation from:

p 250 (USSR)

AUTHORS: Pavlichenko, A. A., Bazlov, M. N., Galonskiy, P. F.

Results of Heat Application (Vystupleniya v preniyakh) TITLE:

V sb: Metody uvelicheniya nefteotdachi plastov. Moscow, Gostoptekhizdat, 1955, pp 80-88 PERIODICAL:

ABSTRACT:

Bibliographic entry

Card 1/1

GELLIVENLY,

GALONSKIY, D. P., Dep. Min. of Pet. Ind. USSR.

"Utilization of Atomic Power for Peaceful Purposes and the Goals of the Soviet Petroleum Industry in this Field." <u>Utilization of Radioactive Isotopes & Emanations in the Petroleum Industry</u> (Symposium), Min. Petroleum Industry USSR, 1957

Results of the Joint Session of the Technical Council of Min. of the # Petroleum' Industry USSR and Soviet Sci. and Technical Association, Moscow, 14-19 Mar 1956.

reduktor; ELCTNIKOV, I.M., reduktor; KALANTAN V. 8.2.
reduktor; L'VCV, M.C., reduktor; MAXNIMOVICH, G.K., reduktor;
MURAV'YEV, V.H., reduktor; MUSTAFINOV, A.B., reduktor; MUSTAFINOV, A.B., reduktor; SEKNAH,
reduktor; TREBIN, F.A., reduktor; FANIYEV, R.D., reduktor; SEKNAH,
Yu.K., veduchchiy reduktor; POLOSIMA, A.S., tekhnicheskiy reduktor

[Exploitation of oil fields; proceedings of an All-Union conference of workers in oil extraction held at Kuybyshev in 1950] Coyt repre-botki neftianykh mestorozbienii; trudy Vsesciusnogo neveshehaniin rabetnikov po dobyche nefti, sostojavshegosia v g.Kuybyshava 19-23 iiumia 1956 g. Moskva, Gos.nauchno-tekhn.izd-vo neft.i gorno-topliv-noi lit-ry, 1957, 553 p. (MIRA 10:10)

1. Vass oyuntaye soveshchaniye rahctnikov po dabycho nefti, Euybyshev, 1956.
(Petroleum engineering)

CIA-RDP86-00513R000614120015-1 "APPROVED FOR RELEASE: 07/16/2001

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E HLENSKIN

USSR/Chemical Technology - Chemical Products and Their

I-8

Application. Treatment of Natural Gases and Petroleum.

Motor and Jet Fuels. Lubricants.

Abs Jour

: Ref Zhur - Khimiya, No 1, 1958, 2512

Author

: Galonskiy, P.P.

Inst

Title

: Results of the International Conference at Geneva on the

Peaceful Utilization of Atomic Energy and the Problems of

USSR Petroleum Industry in This Domain.

Orig Pub

: Sb.: Primeneniye radioaktivn. izotopov i izlucheniy v

neft. prom-sti. M., Gostoptekhizdat, 1957, 3-8

Abstract

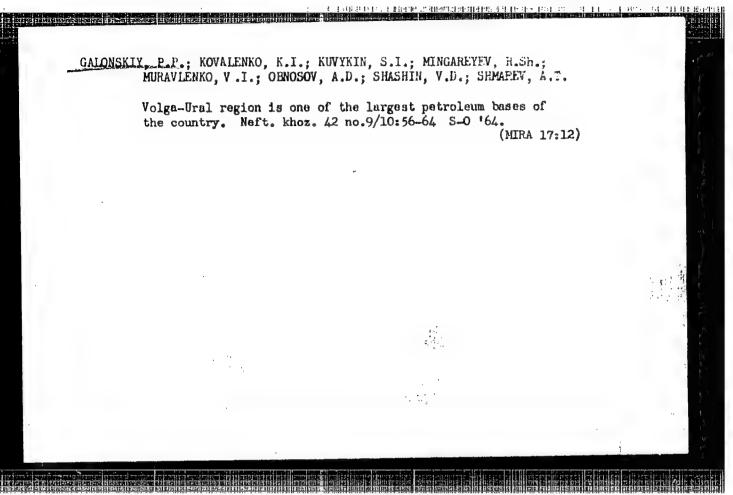
: No abstract.

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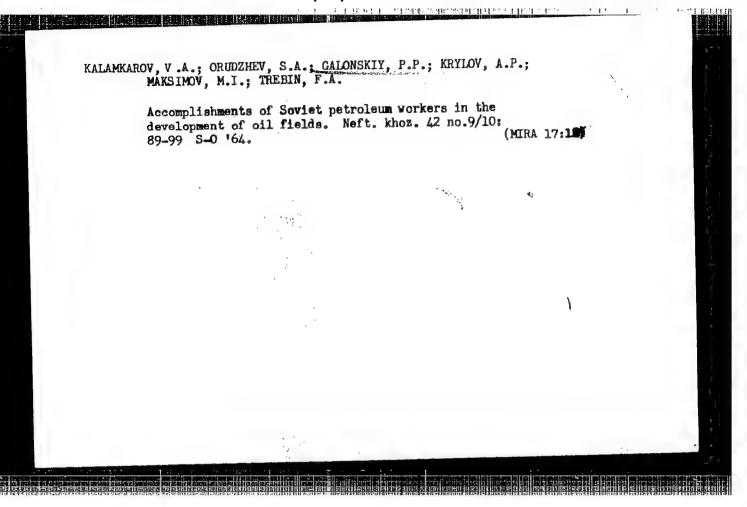
GALUERTY, P.P., kand. tekhn. nauk; AVANESOV, K., red.; BAKIYEV, K., tekhn. red.

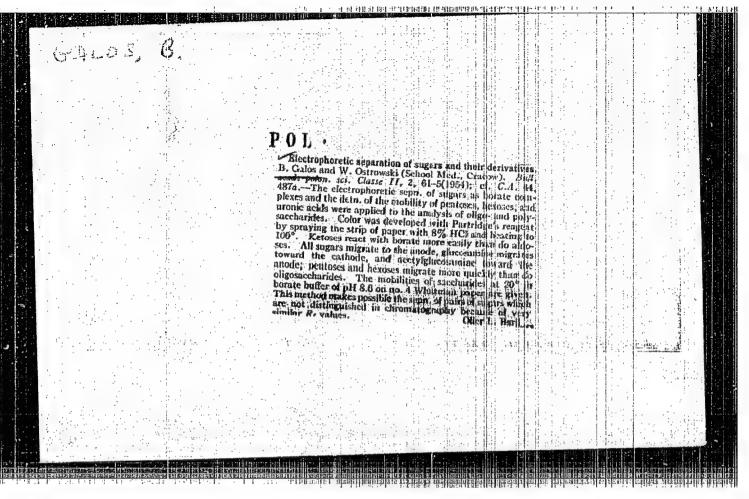
[Development of the economy of the Kurkmen S.S.R. during the seven-year period, 1959-1965]Razvitie narodnogo khozialstva turkmenskoi SSR v semiletii, 1959-1965 gg. Ashkabad, Ob-vo Turkmenskoi sag v semiletii, 1959-1965 gg. Ashkabad, Ob-vo rasprostraneniiu polit. i nauchnykh znanii Turkmenskoi (KIRA 15:8) SSR, 1959. 51 p. (Turkmenistan—Economic policy)

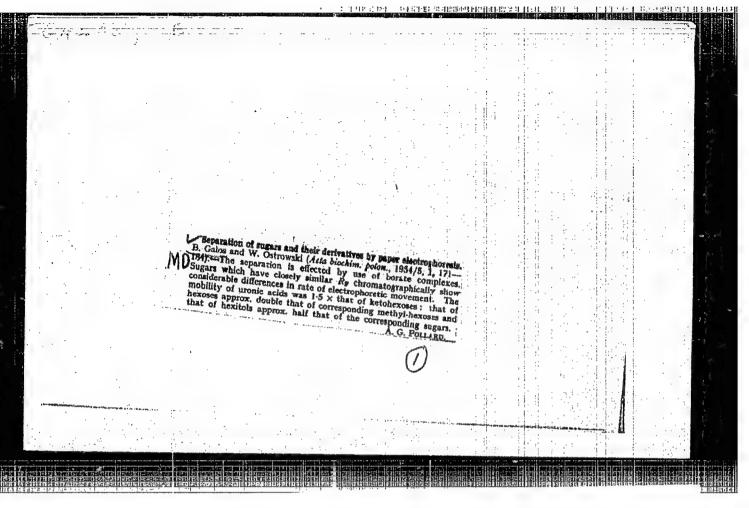
GALONSKIY, P.P., kand.tekhn.nauk For technical progress in oil production. Rezop.truda v prom. 7
(MIRA 16:2) no.1:3-6 Ja 163. 1. Chlen Gosudarstvennogo komiteta Soveta Ministrov SSSR po toplivnoy promyshlennosti. (Petroleum engineering-Technological innovations)



ALIDZHANOV, G.C., ANNALIYEV, A.A., GALONSKIY, P.P., DADASHEV, In.A., DENISEVICH, V.V. Oil and gas production in Central Asia. Neft. khoz. 42 no.9/10:69-74 S-0 '64. (MIRA (MIRA 17:12)







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KRASZNAI, Ivan, dr.; GALOS, Gizella, dr.

Our experience with a new spasmolytic: NO-SPA. Orv. hetil. 104 no.4: 164-167 27 Ja '63.

1. Budapest Fovaros IIII. ker. Tanacs VB. Robert Karoly krt-i Korhaz, I. Belosztaly.

(MUSCLE RELAXANTS) (QUINOLINES) (VASCULAR DISEASES)

(ULCER) (CHOLELITHIASIS) (KIDNEY CALCULI)

OLAH, Imre; ARTAL, Janos; GALOS, Gizella

Changes in systemic and retinal hyportension in hypertensive patients influenced by hypotensive agents. Kiserl. orvostud. 16 no.4:439-443 Ag '64.

1. Endapesti Orvostudomanyi Egyetem Neurologiai Klinikaja es Robert Karoly krt.-i korhaz I Belgyogyaszati Osztalya.

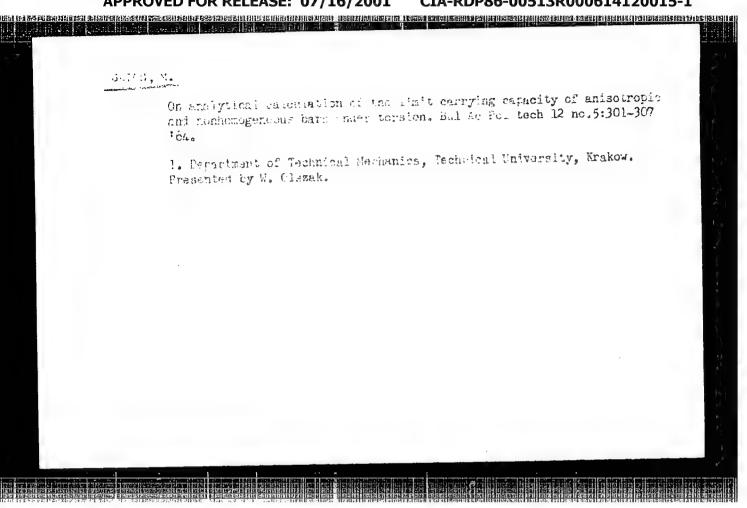
Analytical calculation of limit carrying capacity of isotropic bars subject to torsion. Bul Ac Pol tech 12 no. 2:79-88 '64

1. Department of Technical Hechanics, Technical University, Takou. Presented by W. Olszak.

GALOS, Marian; ZYGZKOWSKI, Michal (Krakow)

Analytical method of computing the limit load carrying capacity of bars subject to torsion. Rozpr inz PAN 12 no.2:267-296 '64.

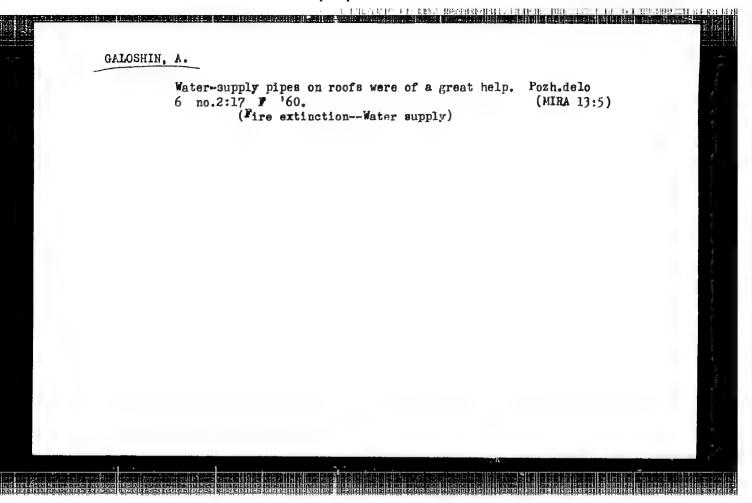
1. Technical University, Krakow.



GALOS-BICZOWA, B., Ostrowski, W., Krawczyk, A.

Zonal electrophoresis in the presence of adsorbents. p. 649. (ACTA BIOCHIMICA POLONICA. Vol. 3, no. 4, 1956, Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, no. 12, Dec. 1957. Uncl.



GALOSHINA, EV. sov/56=35-5-53/56 24(3), 18(6) Vol'kenshteyn, N. V., Turchinskaya, E. I., Galoshina, E. V. AUTHORS: On the Particular Features of the Magnetization of Disordered TITLE: Alloy NizMn at Low Temperatures (Ob cosobennost yakh namagnicheniya neuporyadochennogo splava Nizhn pri nizkikh temperaturakh) Zhurnal eksperimental noy i teoreticheskoy fiziki, 1958, PERIODICAL: Vol 35, Nr:5, pp 1312-1313 (USSR) It is known that the alloy Ni-Mn near the stoichiometric com-ABSTRACT: position Ni3Mn belongs to the class of self-ordering alloys with a sharply marked dependence of physical properties on the degree of order in the arrangement of atoms. The occurrence of strong ferromagnetism at the maximum degree of the remote order is particularly noteworthy. Thus, the saturation magnetization I of the alloy exceeds that of pure nickel by 50%. According to the experimental results obtained by the authors, the alloy NizMn becomes ferromagnetic already at the tempera-

ture of liquid nitrogen, in which case it holds that I = 1350 Oe.

The Curie (Kyuri)-temperature 9 was determined from the data

Card 1/3 obtained by the precise measurement of the temperature

SOV/56-35-5-53/56
On the Particular Features of the Magnetization of Disordered Alloy, Ni₃Mn at Low Temperatures

dependence of the electric resistance, and in this way 9 = 110°K was found. An exact investigation of the magnetization curves at various temperatures up to the temperature of liquid helium shows that the character of magnetization has some particular features. Firstly, the curves plotted at 20.4 and 4.2 K after cooling of the sample from room temperature take a course that is much lower than that of the curves plotted in the case of repeated magnetization after previous demagnetization (by commutation from maximum field strength to zero at 20.4 and 4.2 K). This may perhaps be explained by the high energy of magnetic anisotropy. Secondly, the great difference between the magnetization curves plotted at 20.4 K and 4.2 K is remarkable. At field strengths of up to 18,000 Oersted the latter take a course that is much lower than that of the former and do not attain saturation. At 77.8 K coercive force amounts to 140 Oersted, and at 20.4 K it is 1,000 Oersted. Such a great increase indicates a high degree of temperature dependence of the constants of magnetic anisotropy. More accurate conclusions as to the nature of the magnetic properties of

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soy/56-35-5-53/56

On the Particular Features: of the Magnetization of Disordered Alloy Night at Low Temperatures

the alloy Ni3Mn in the disordered state can be drawn only after further accurate measurements will have been carried out. There are 2 figures and 3 references, 1 of which is Soviet.

ASSOCIATION: Institut fiziki metallov Akademii nauk SSSR

(Institute for the Physics of Metals of the Academy of Sciences,

USSR)

SUBMITTED: August 8, 1958

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Card 9/11	Card 7/11	anstlact:	PERIODICAL	#11218: #12308:	
attrie at temperatures of liquid hydrogen. R. R. Remnor and T. R. Tuternik (Chiri) dealt with the kindlo phiricoana in ferromagnetics at low temperatures and with calculation of relaxation times A. Addivert, P. Bar yather and S. Palstalariy (Chiri) carried out a theoretical investigation of the relaxation of the requests moment in ferrodulectrics; Theory TM AT 3533 abored that a linearly polarized clastin (ultraconic) wave of a frequency of 10 cycles when passing through a ferromagnetic substance in the direction of the magnetic field, is subjected to a turn of the polarization plans of the order of 10 - 10 - radian/on orested. F. T. Laganov pointed out that in this connection yet another of ultraconics if the seaflength is connection yet another of ultraconics if the seaflength is equal to the radius of the larger points of the sleetzen. F. Farings Despiton.	A. S. Derevik-Beamow (IFP) delivered a report on investigation and a support on the seal ferromagnition in a carried out of the anisotropy of the seak ferromagnition in the effect of ministry; was predicted by the thermodynamical theory developed by Dryalonkinati;). In the course of the discussion E. A. Alkahanow (IFP) spoke about national profice of the discussion of the province of the magnetic structure of the discussion of the province of the same of the province of the same of the same of the magnetic structure. P. C. Expins a treesed "the importance of the majority does about national seture was read by A. S. Brownic Changow, reported on measure meste carried out by his (in the IFP) of the majority mainer tree; it is not be the majority of the majority of the majority of the majority of the majority of the majority of the majority of the majority of the majority of the majority of the majority of the majority of the majority of the majority of the majority of the majority of the majority of the same of the majority of the majority of the same of the majority of the majority of the same of the majority of the ma	This Conference took place from Deaber 27 to November 1 at This is it is a regulated by the Oldslevier fields-matematical states of the leading of Physics of Physics at healthal Science of the leading of Sciences (35%), and Ladesign and Upratished 128 (Leadeny of Sciences). The Ladesign and Upratished 128 (Leadeny of Sciences) and Ladesign and Upratished 128 (Leadeny of Sciences). The Conference was attended by about 300 appealables from This is decrease. Early, Elye, Leathaged, Steadowsky and This is decrease. Early, Elye, Leathaged, Steadowsky and This is decrease. Early, Elye, Leathaged, Steadowsky and This peasant working in the Upratish Nour 50 because were delivered think the Conference of Pounds (Leaden).	temporatur) Vepekhi fisidcheskikh mauk, 1959, Vol 67, Nr 4. pp 743-750 (988)	\$07/53-67-4-7/7 Chenter, R. The Pith All-Taion Conference on the Physics of Los Pennariums (5-re Teasoriumse somehobnaty po fisike miskikh	

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E032/E314

AUTHORS:

Volkenshteyn, N.V. and Galoshina, F.V.

The Temperature Dependence of the Residual Electrical Resistivity of Ordered Alloys

TITLE:

Fizika metallov i metallovedeniy, 1960, Vol. 10;

The electrical resistivity of crystalline materials can frequently be used as a sensitive indicator of changes PERIODICAL: taking place in a solid specimen. This is due to the fact that crystal-lattice imperfections affect the behaviour of conduction electrons, and from this point of view the formation of short-range order should affect the character of the The present temperature dependence of electrical resistivity. temperature dependence of electrical resistivity of Ni3Mn and Cu3Pd authors have investigated the resistivity of Ni3Mn and Cu3Pd

alloys as a function of the annealing temperature. specimens were in the form of wires. Potentiometer leads were spot-welded onto them and were made of the same material. were spot-werded onto them and were made of the same material. The specimens

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S/126/60/010/003/009/009/XX E032/E314

The Temperature Dependence of the Residual Electrical Resistivity of Ordered Alloys

were heated in evacuated ampules for between one and several hours. The resistivity was measured by the MMTHM (PPTN-1) potentiometer at two temperatures, namely, room temperature and liquid-nitrogen temperature. It was found that lower temperatures were not necessary because the resistivity at liquid-nitrogen temperatures is close to the residual resistivity. The resistivities were measured to an accuracy of 0.01%. The resistivities were measured to an accuracy of the quenching Figs. 1 and 2 show $77.8^{\circ} \text{K}/293^{\circ} \text{K}$ as functions of the quenching

temperature. The presence of a minimum in the resistivity, which is clearly seen in these experimental results, can be explained by the existence of fluctuations in composition and order near the ordering temperature, or the existence of short-range order which in these alloys tends to increase the

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S/126/60/010/003/009/009/XX E032/E314

The Temperature Dependence of the Residual Electrical Resistivity of Ordereds Alloys

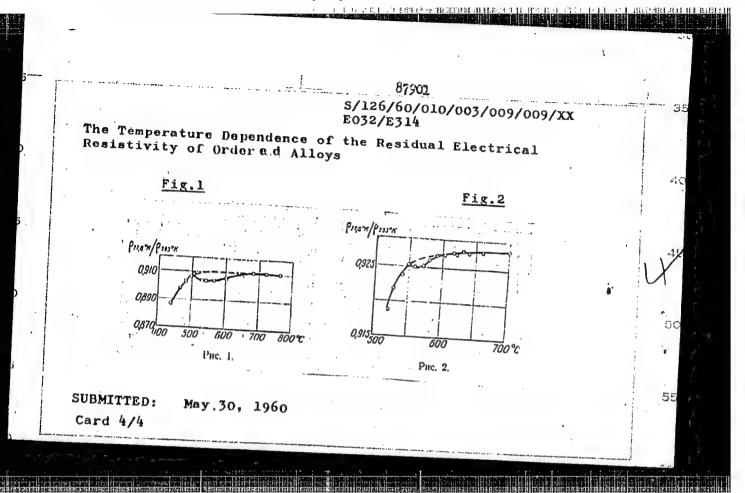
resistivity (Krivoglaz and Rybak - Ref. 8 and Katsnel'son - Ref. 9).

There are 2 figures and 9 references: 6 Soviet and 3 non-Soviet.

ASSOCIATION: Institut fiziki metallov AN SSSR

(Institute of Physics of Metals of the AS USSR)

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L 12480-EWP(q)/EWT(m)/BDS AFFTC/ASD JD/HW-2 \$/185/63/008/003/002/009 AUTHOR: Volkenshteyn, N. V., Galcshina, E. V., G. V. and Tsiovkin, Yu. N. Effect of ordering on electrical magnetic, galvanomagnetic and TITLE: thermal properties of Ni3Mn alloy 27-21 PERIODICAL: Ukraims kyy Fizychnyy Zhurnal, v. 8, no. 3, 1963, 306-312. The article investigated the electrical conductivity, magnetization, Hall effect and heat capacity of alloys near the stoichiometric composition NigMn over a wide range of temperatures down to 1.50 K both in disordered and in states with varying degrees of long-range order. The data which were obtained show that the disordered state and the initial stages of ordering where short range order appears are very complex for Ni3Mn alloy. The temperature dependence of electrical conductivity was investigated near the Curie point. Magnetization measurements were made on single crystals. The Hall emf for ordered state of this alloy as a function of induction has normal character for ferromagnetic materials. The article contains 7 figures and a 6 item bibliography. ASSOCIATION: Institut Fiziki metallov AN SSSR (Institute of Metal Physics of the Academy of Sciences of the USSE, Sverdlovsk) Card 1/1

VOLKENSHTEYN, N.V.; GALOSHINA, E.V.

Temperature dependence of paramagnetic susceptibility electric conductivity and the Hall effect in metal scandium. Fiz. met. i metalloved. 16 no.2:298-301 Ag '63. (MIRA 16:8)

l. Institut fiziki metallov AN SSSR.
(Scandium-Magnetic properties)
(Electric conductivity)
(Hall effect)

ENT(n)/EPF(c)/ENP(t)/EWP(b) Pr-4 AFWL/SSD/AS(mp)-2/ESD(gs)/ESD(t) L 15039-65 8/0000/64/000/000/0079/0085 JD/JC/MLK AT4048697 ACCESSION NR: AUTHOR: Volkenshteyn, N. V.; Fedorov, G. V.; Galoshina, E. V.; Stirtsev, V. Ye. TITLE: Temperature dependence of the electrical and galvanoung netic properties of rare earth metals SOURCE: Vsesoyuznove soveshchaniye po splavam redkikh melallov, 1963. Voprosy* teoril i primeneniya redkozemel'ny*kh metallov (Problems in the theory and use of rareearth metals); majorialy* soveshchaniya. Moscow, Izd-vo Nauka, 1964, 79-85 TOPIC TAGS: rare earth metal, rare earth electrical property, rare earth galvanomagnetic property, rare earth magnetic property, Hall effect, rare earth atomic structure ABSTRACT: The electrical resistance and Hall effect are excellent indicators of the characteristics of the electronic structure of solid bodies. The present paper describes simultaneous measurements of the electrical resistance and the Hall effect for a large group of highly purified rare earth metals. The electrical resistance of neodymium, europium, gadolinium, terbium, dysprosium, holmium, erblum and ytterbium was measured by a common potentiometer in a metal cryostat at temperatures between room and 4.2K. The electrical resistance differed significantly from that of the usual metals with low resistance. The temperature relationships could be used to divide the rare

L 15039-65 ACCESSION NR: AT4048697

earth metals into four groups. The first group contains neodymium and ytterbium, do not show a linear relationship in the above-mentioned temperature interval. The second group includes dysprosium, holmium and erbium, which show breaks in the curves and low resistance maxima when passing from the paramagnetic into the anti-ferromagnetic condition. The third group contains gadolinium and terbium, which show a sharp break when passing from the paramagnetic to the anti-ferromagnetic condition, with a linear relationship in the paramagnetic field. Europium has a special place among the rare earth metals. It shows a sharp drop in electrical resistance below the point of passage from the paramagnetic into the anti-ferromagnetic condition. The detailed behavior of europium requires further investigation. Analysis of the curves for all the rare metals shows that the specific electrical resistance at equivalent temperatures is higher than for metals in the first group of the periodic table. The Hall effect was measured with a DC potentiometer in a cryostat for europium, holmium, erbitum and dysprosium, the authors being the first to measure the Hall effect of europium and holmium. Temperature variations did not change the Hall effect. On the basis of these tests and publications by C. J. Kevan, S. Legvold and G. S. Anderson, it can be seen that all the rare earth metals may be divided into a "light" group (up to gadolinium) and a "heavy" group, in both of which the conductivity depends on the electronic bonding. The paper further describes

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ACCESSION NR: AT4048697

the variations of the Hall effect depending on the temperature, induction and other factors. Scandium should be noted specifically. The 99.86% pure scandium tested contained 0.04% Cu, less than 0.01% Mo, 0.03% Fe, 0.016% N2, 0.034% O2, 0.001% H2 and 0.008% Cd which was distilled under a vacuum. The specific electrical rosistance of scandium is very high and exceeds that of copper and calcium. The resistance drops linearly with temperature to the temperature of liquid helium. Paramagnetic susceptibility was also found by the Faraday method. This did not depend on the magnetic field, but rather on the temperature, decreasing as the temperature rose. In conclusion it is noted that the appearance of one electron in the 3d-shell alters the physical properties of scandium in comparison with the other metals. Orig. art. has: 7 figures.

ASSOCIATION: None

SUBMITTED: 13Jun64

ENCL: 00

SUB CODE: MM, EM

NO REF SOV: 002

OTHER: 012

Card 3/3

VOLKENSHTEYN, N.V.; GALOSHINA, E.V.

Superconductivity V.—Sc alloys. Zhur. eksp. i teor. fiz. 47 no.3:
812-813 S '64. (MIRA 17:11)

1. Institut fiziki metallov AN SSSR.

VOLKENSHTEYN, N.V.; GALOSHINA, E.V.

Hall effect and the paramagnetic susceptibility of hafnium. Fiz.met.
i metalloved. 18 no.5:784-786 N *64.

1. Institut fiziki metallov AN SSSR.

(MIRA 18:4)

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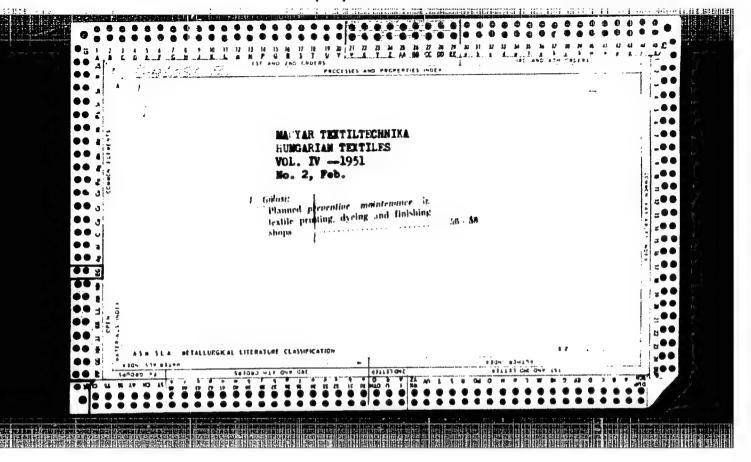
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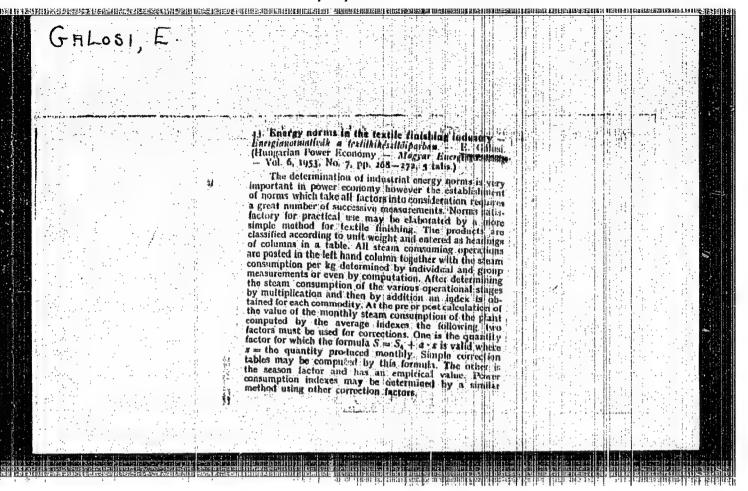
2. lastifut field metalic. At Said.

VOLKENSHTEIN, N.V.; GALASHINA, E.V.

Hall effect in transition metals with a small number of delectrons. Fiz. met. i metalloved. 20 nc.32475-478 5 (MIRA 18:11)

1. Institut fiziki metallov AN SSSR.





GALOSI, E.

Detrimental electrostatic phenomena and their elimination in the finishing technology by high-voltage ion accelerators. p. 419.

MAGYAR TEXTILTECHNIKA. (Textilipari Muszaki es Tudomanyos Egyesulet) Budapest, Hungary, Vol. 10, no. 11/12, Dec. 1958.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959.
Uncla.

GALOSI, E.; BENCZE, K.

The Leipzig Fair seen by the eyes of a finisher. p. 258.

MAGYAR TEXTILTECHNIKA. (Textilipari Muszake es Tudomanyos Egyesulet) Budapest, Hungary, Vol. 11, no. 6, June 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959. Uncla.

EGYED, Ferenche, dr.; GALOSI, Elemer

Water supply of textile finishing plants. Magy textil 13 no.5:208-213 My 161.

1. "Magyar Textiltechnika" szerkeszto bizottsagi tagja(for Galosi)

FERENCZY, St., ing.; MITROFANOVICI, V.; HARANGOZO, Nicolae; GALOSI, Tiberiu; TEODORESCU, S., dr.; MIHALACHE, Stefan; HERSTIG, I.; GRADINARU, N.; CASSABALIAN, S.

Reducing the cost price in the chemical industry. Problems econ 16 no.10:153-160 0 '63.

1. Director, Intreprinderea "Solventul", Timisoara (for Ferenczy).
2. Ing. sef adjunct, Intreprinderea "Solventul", Timisoara (for Mitrofanovici).
3. Director, Fabrica de lacuri si vopsele din Timisoara (for Harangozo).
4. Director, Fabrica chimica Timisoara (for Galosi).
5. Director, Intreprinderea Industriala de Stat "Tableta", Beuresti (for Teodorescu).
6. Contabil sef, Intreprinderea Industriala de Stat "Tableta", Bucuresti (for Mihalache).
7. Director, Fabrica de medicamente Biofarm", (for Herstig).
8. Director, Uzina de superfostati si acid sulfuric Navodari (for Gradinaru).
9. Sef serviciu plan, Uzina de superfosfati si acid sulfuric Navodari (for Cassabalian).

GALOTZY. J.

Phase-shift control for short-circuit tests.

p. 388
Vol. 31, no. 6, June 1955
PRZEGLAD ELEKTROTECHNICZNY
WATCHAMA

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 5, no. 2 Feb. 1956

S/032/61/027/008/005/020 B107/B206

AUTHORS:

Blanter, M. Ye., Koryagin, K. P., Martishyn, O. V., and

Galov, A. G.

TITLE:

A method for the determination of the hardenability of a steel

with reduced hardenability

PERIODICAL: Zavodskaya laboratoriya, v. 27, no. 8, 1961, 978-980

TEXT: A method for determining the hardenability of low-carbon steels (0.1--0.2% C) was elaborated. The two types used were Crasij(Stal'3) and Crasij(Stal'15). The specimens were not of the usual L shape, but had the snape of a truncated cone (90 mm high, lower diameter 25 mm, upper diameter 5 mm). After quenching from 900°C in 8-15 % NaOH, the specimens were cut in half along the axis and polished, and the Vickers hardness was then determined along the axis. Its variation along the axis is approximately given by the equations $H_V = 376 - 5.7x + 0.035x^2$ (for steel 15) and $H_V = 380 - 3.7x + 0.02x^2$ (for steel 3), respectively. H_V is the Vickers hardness, and x is the distance from the upper end of the truncated Card 1/3

A method for ...

S/032/61/027/008/005/020 B107/B206

cone. Cylinders with a diameter of 8-20 mm and a height-to-diameter ratio of 4 were out from the same steels. After quenching, the cylinders were cut perpendicular to the axis, and the radial change of the Vickers hardness was investigated. It follows the equation $H_V = A + B\kappa_1^2$, κ_1 is the distance

from the cylinder center; A and B are coefficients (see Table). From the relations mentioned it is possible to calculate the values of x and x, for which the rate of cooling is equal. It is thus possible to calculate the hardness of a cylinder by determining the hardness on a conical specimen. The relation holds for any steel, since the criterion of equal hardness virtually corresponds to the same rate of cooling. A nomograph was drawn for the relation (Fig.). An example is calculated to illustrate the mode of operation. There are 5 figures, 2 tables, and 2 Soviet references.

ASSOCIATION: Vsesoyuznyy zaochnyy mashinostroitel'nyy institut (All-Union Machinery Correspondence Institute)

Card 2/3

BALOUATCHEUR, R.S.

USSR/Microbiology. Soil Microbiology

F-3

DESIGN DESCRIPTIONS FOR RELATIVE A STATE OF

Abs Jour

: Ref Zhur-Biologiya, No 1, 1957, 573

Author

: R. S. Galovatcheva

Inst

Title

: On the Problem of the Role of Clostridium Pasteurianum in the Nutrition of Plant

Roots

Orig Pub

: Izv. AN EST SSR, 1955, No 2, 273-280

Abstract

: Bacterization of the seeds with Clostridium pasteurianum increased the yield of oats by 15.9% in an acid podzol soil in a vegetation experiment. The increase in the yield was 6.1% when shale ash was added to the same soil, while the increase in the yield from the peat moss carbonic soil was 10.9%.

Card 1/2

USSR/Microbiology. Soil Microbiology

F-3

Abs Jour

Ref Zhur-Biologiya, No 1, 1957, 573

Abstract

The greatest yield was produced by the combined introduction of Clostridium pasteurianum and phosphorus bacteria into acid soil which, in the author's opinion, bears witness to the existence of symbiotic relations between these microorganisms. In a field experiment on barley the inauculation of the seeds with Clostridium pastirianum increased the yield by 11.4% as compared with nonbacterized control. Clostridium

pastirianum introduced with the seeds. developed with intensity in the rhizosphera of the plants, reaching a quantity of 1,000,000 per one/g of land.

Card 2/2

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S/081/61/000/016/007/040 B118/B101

18.9500

AUTHOR:

Galovanov, V.V.

TTTLE:

The problem of the role of some factors in the growing of

single crystals from the melt

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 16, 1961, 39, abstract

166256 (Sb"Vopr. metallurgii i poluprovodnikov". M., AN

SSSR, 1959, 23-28)

TEXT: The processes taking place during the crystallization from the melt have been studied. Practical conclusions were drawn therefrom in order to obtain a homogeneous single crystal by Chokhral'skiy's method. The role of the temperature gradient at the interface of two phases (crystal - melt), of the concentration of the impurity, of the pulling rate, and of the conditions of mixing are discussed. The minimum value of the temperature gradient must be chosen such that the formation of a solid phase at some distance from the crystallization front is impossible. The decrease of the pulling rate makes it possible to lower the value of the temperature gradient, since the amount of crystallization heat Card 1/2

The problem of the role of some...

20304 S/081/61/000/016/007/040 B118/B101

evolving per unit time decreases while the impurity in the melt is distributed more uniformly. At low impurity concentrations, it is convenient to keep the temperature of the melt constant while the crystal is being pulled, whereas at high impurity concentrations it is necessary to regulate the temperature of the melt according to a program. To grow a crystal of constant cross section at a constant temperature of the melt and at a constant pulling rate, it is necessary to ensure a constant temperature at the interface of the two phases. The velocity (frequency) of vibrations of the crystallization front relative to the surface of the melt must be a minimum. The accuracy of temperature regulation of the melt must be characterized by the maximum rate of variation of the temperature of the melt with time. The position of the crystallization front can be stabilized by increasing the temperature gradient at the interface of the two phases. The design of a device developed on the basis of practical conclusions is presented. The growing of InSb single crystals with the aid of the device is described. [Abstracter's note:

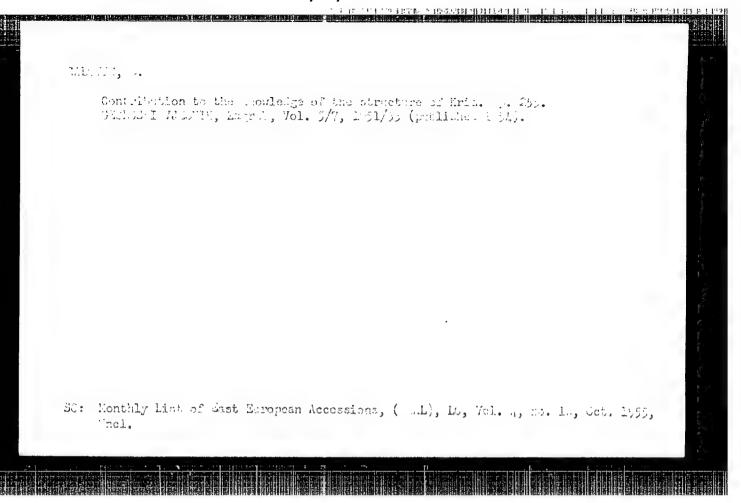
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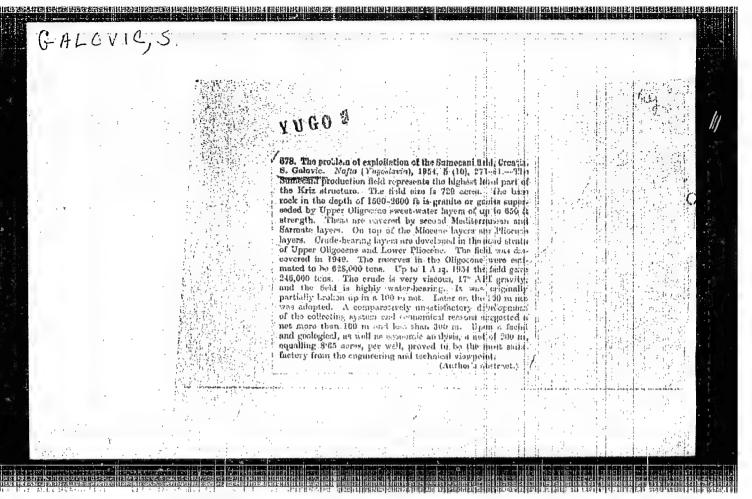
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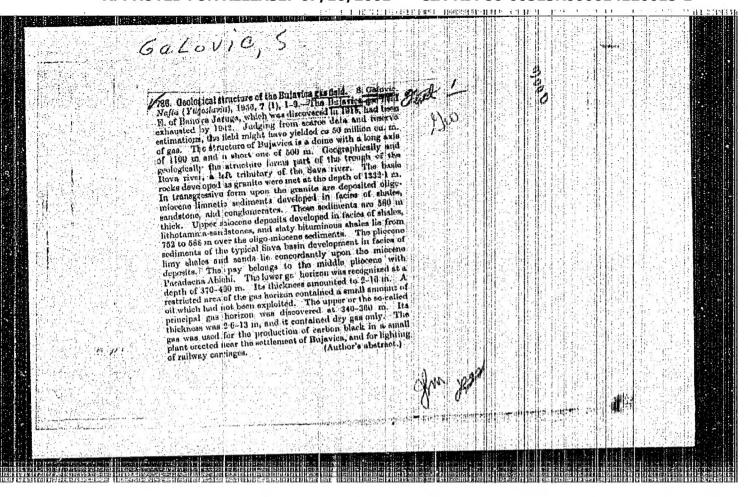
SIROTANOVIC, Ksenija; BAJION-ROCEN, Milka; GALOVIC, Dragica

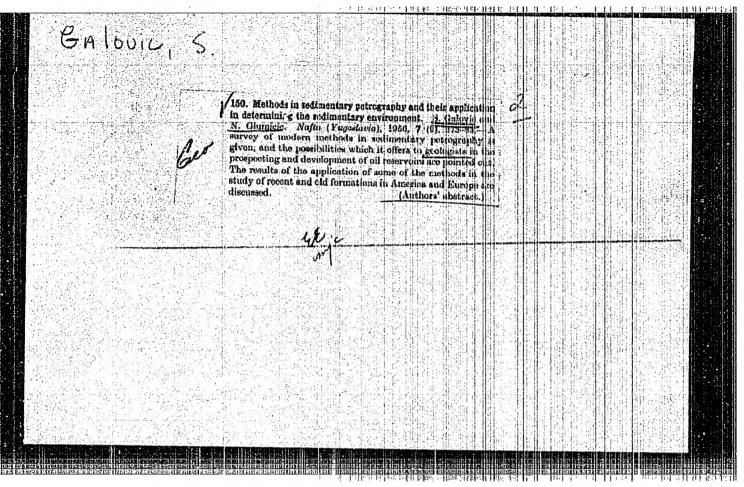
Addition of mercaptans to unsaturated aldehydes. Pt. 1. Glas Hem dr 25/26 no.8/10:509-518 160/161.

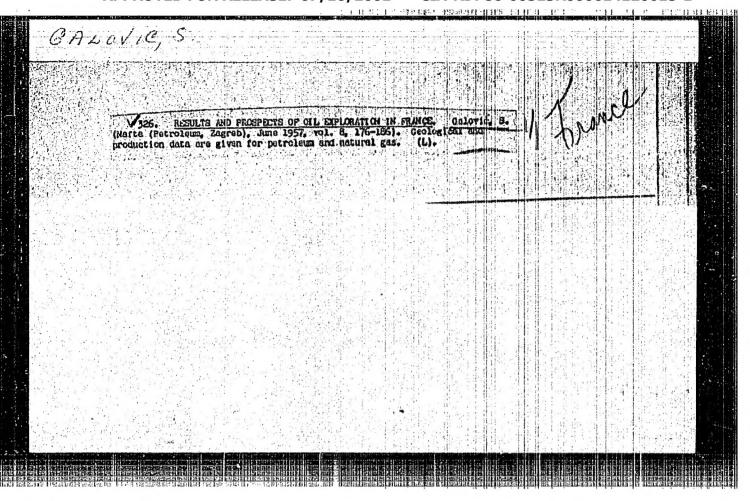
1. Faculty of Sciences, Institute of Chemistry, Beograd.











USSR/Nuclear Physics - Elementary Particles.

C-3

Abs Jour

: Ref Zhur - Fizika, No 4, 1957, 8665

Author

: Galovin, B.M., Dzhelepov, V.P.

Inst Title : Institute of Nuclear Problems, Academy of Sciences USSR

: An Investigation of the Elastic Scattering of 590 Mev

Neutrons by Neutrons.

Orig Pub

: Zh. eksperim. i teor. fiziki., 1956, 31, No 2, 194-201

Abstract

: The differential scattering cross section for the elastic scattering of neutrons by neutrons has been determined using a neutron telescope. The effective energy of the neutrons was 590 Mev. A striking anitropy of the (n-n)scattering has been established: $G_{nn}(30^{\circ})/G_{nn}(90^{\circ})$ =2.3. It has been found that the differential n_n

(n-n)-scattering cross section in the investigated angular region (300 \leq $\sqrt{2}$ \leq 900) is equal to the proton-proton cross section at the same energy within experimental error. This fact, together with the results of our

Card 1/2